

**AMENDMENTS TO THE CLAIMS**

Claim 1 (Original) A propulsion device comprising;  
a preheating means provided in a combustion chamber,  
a liquid fuel supply means opening toward said combustion chamber,  
a surface area increasing means provided in said combustion chamber,  
an oxidizer supply means opening toward said combustion chamber,  
an oxidizer storing means connected to said oxidizer supply means and hydrogen peroxide stored  
in said oxidizer storing means.

Claim 2 (Original) A propulsion device as claimed in Claim 1, wherein at least one of an  
orientation to which said liquid fuel supply means opens and an orientation to which said oxidizer  
supply means opens includes a vector toward said surface area increasing means.

Claim 3 (Currently Amended) A propulsion device as claimed in Claim 1 or 2, further  
comprising a preheating means, that supplies heat, connected to said surface area increasing  
means.

Claim 4 (Original) A propulsion device as claimed in Claim 1, wherein said surface area  
increasing means is formed in any one shape selected from the group of a net shape, a laminated  
net shape in which a plurality of nets are laminated and a honeycomb shape.

Claim 5 (Original) A propulsion device as claimed in Claim 1, wherein a chemical species of  
said surface area increasing means is any one or more selected from the group of silver, platinum,  
palladium, ruthenium and iridium.

Claim 6 (Original) A propulsion device as claimed in Claim 5, wherein said surface area  
increasing means comprises a support made of a ceramic and a catalyst arranged in contact with

said support and a chemical species of said catalyst is any one or more selected from the group of silver, platinum, palladium, ruthenium and iridium.

Claim 7 (Original) A flying object comprising a propulsion device as claimed in Claim 1.

Claim 8 (Original) A flying object as claimed in Claim 7, wherein said flying object is any one of an artificial satellite, an on-trajectory working station, a lunar probe, a planet probe, a guided aerospace craft and a launch vehicle.

Claim 9 (Original) A propulsion device igniting method comprising the steps of; preheating a surface area increasing means provided in a combustion chamber (a preheating step), supplying a liquid fuel into said combustion chamber (a fuel supply step), causing said liquid fuel to contact with said surface area increasing means (a fuel contacting step), supplying an oxidizer into said combustion chamber (an oxidizer supply step) and causing said oxidizer to contact with said surface area increasing means (an oxidizer contacting step).

Claim 10 (Original) A propulsion device igniting method as claimed in Claim 9, wherein at least one of an orientation to which said liquid fuel is supplied and an orientation to which said oxidizer is supplied includes a vector toward said surface area increasing means.

Claim 11 (Currently Amended) A propulsion device igniting method as claimed in Claim 9 or 10, wherein said preheating step is a step of supplying said surface area increasing means with heat.

Claim 12 (Original) A propulsion device igniting method as claimed in Claim 9, wherein a chemical species of said oxidizer is hydrogen peroxide.

Claim 13 (New) A propulsion device as claimed in Claim 2, further comprising a preheating means, that supplies heat, connected to said surface area increasing means.

Claim 14 (New) A propulsion device igniting method as claimed in Claim 10, wherein said preheating step is a step of supplying said surface area increasing means with heat.